MULTIMEDIA UNIVERSITY

STUDENT ID NO

MULTIMEDIA UNIVERSITY

FINAL EXAMINATION

TRIMESTER 1, 2015/2016

DCS5288 – INTERNET AND WEB PUBLISHING

(DIT & DBIS Students Only)

17 OCTOBER 2015
9.00 a.m. – 11.00 a.m.
(2 Hours)

INSTRUCTIONS TO STUDENT:

1. This booklet consists of **NINE (9)** pages excluding the cover page. There are **TWO (2)** sections in this booklet.

2. **SECTION A**: There are **TWENTY (20)** Multiple Choice Questions (MCQ) (20 marks). Answer **ALL** questions on the OMR sheet provided.

3. **SECTION B**: There are **FOUR (4)** structured questions (60 marks). Answer **ALL** questions in the answer booklet provided.

SECTION A: MULTIPLE CHOICE QUESTIONS (MCQ) (20 Marks)

Instruction: *Answer all the questions in this section and shade your answers on the OMR sheet provided.*

1. _____ are software components that add a specific feature to an existing software application.
   A. Widgets
   B. Add-ons
   C. Plug-ins
   D. Emails

2. Which of the following is a valid IP address?
   A. 312.333.32.12
   B. 123.90.32.13
   C. 101.151.91.901
   D. 322.200.13.177

3. FTP program is used to _____.
   A. chat online
   B. scan the computer for program updates
   C. connect to the Internet
   D. transfer files over the Internet

4. Which of the following is not a top level domain name extension?
   A. .ups
   B. .org
   C. .net
   D. .gov

5. Any text placed between the <a> and tags forms a _____.
   A. fieldset
   B. list
   C. paragraph
   D. hyperlink

6. The <img> tag's _____ attribute specifies the image's location.
   A. name
   B. src
   C. title
   D. alt

Continued.....

7. The _____ in HTML forms appears as a slider control in some browsers such as Chrome.
   A. range input type
   B. date input type
   C. number input type
   D. email input type

8. The character entity reference for the symbol '&' in HTML can be written as _____.
   A. %amp;
   B. &ampersand;
   C. &
   D. #and;

9. The _____ property in CSS is used to indent the first line of a text in an element.
   A. text-align
   B. line-indent
   C. font-intent
   D. text-indent

10. The text colour of a content can be changed using the _____ property in CSS.
    A. text-color
    B. color
    C. font-color
    D. colour

11. To add a box shadow effect in CSS, the code `box-shadow:p q r s` is used. What does `s` represent?
    A. Horizontal offset of the shadow.
    B. Vertical offset of the shadow.
    C. Blur radius.
    D. Shadow colour.

12. The _____ symbol in CSS sets the styling for all the elements in a webpage.
    A. &
    B. #
    C. *
    D. $

13. What will be output of the following JavaScript statement?
    ```
    document.write(10+3+"7");
    ```
    A. 137
    B. 20
    C. 1037
    D. It gives an error.

Continued.....

14. JavaScript is a programming language that _____.
    A. is strict about variable type and declaration
    B. supports event driven programming
    C. is executed on the server
    D. is a web version of Java

15. The `getElementById()` method returns the element of a specified _____.
    A. id
    B. class
    C. tag
    D. name

16. If a statement is written as `s = "word";` in JavaScript, what would the statement `s.length();` return?
    A. true
    B. 3
    C. 4
    D. false

17. If a statement is written as `md5("test123");` in PHP, what will it return?
    A. The value "test123".
    B. A 32 character encrypted value of "text123".
    C. A 16 character encrypted value of "test123".
    D. The statement is invalid

18. Which is FALSE about setting an auto increment value as a primary key in MySQL?
    A. It is mostly set for a primary key value.
    B. Once the value is deleted, it will not be used again for other records.
    C. The default value is set to 1.
    D. The value must be inserted in the SQL INSERT statement in PHP.

19. The `session_start()` in PHP is written _____.
    A. before the <html> tag
    B. after the <html> tag
    C. anywhere in the document
    D. at the end of the document

20. What does the hash (#) symbol mean in PHP?
    A. It indicates the variable declaration.
    B. It indicates the database connection.
    C. It indicates lines of comments.
    D. It indicates the rows in a query.

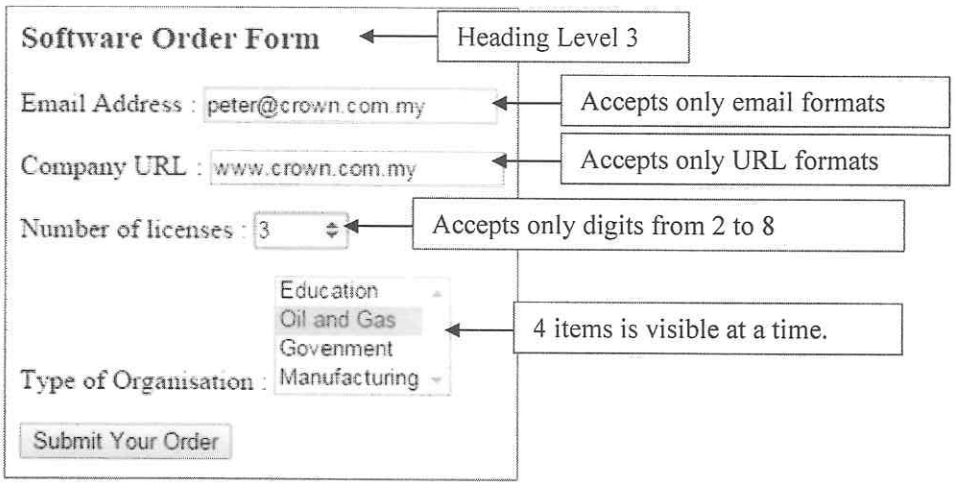
Continued.....

SECTION B: STRUCTURED QUESTIONS (60 Marks)

Instruction: *Answer all the questions in this section and write your answers in the answer booklet provided.*

QUESTION 1 -- HTML (15 Marks)

(a) Write the HTML codes to display the output shown below. [7 marks]



(b) Write the HTML codes to display the table shown below. The table width is 700px. The image names are *monitor.png* and *disc.png* with the width and height of 50px. [8 marks]

Purchase Report

Annual Equipment Purchase Log			
Item No	**Image**	**Description**	**Price**
1		HP 20 inch computer	$890.90
		Cost of handling and shipping	$120.00
2		50 CD	$75.00
Total			$1085.90

Continued.....

QUESTION 2 -- CSS (15 Marks)

(a) Write the External CSS codes for the output shown below. The HTML codes are given for your reference. [10 marks]

Hotel Hibiscus Melaka
Get 5% off your hotel bookings.
Early birds will get complementary dinner on the first day.
Get another 25% off with our Deal of The Day promotion on top of current discounts.
We provide FREE transportation from the airport to the hotel

```
<div id="container">

     <div id="company-icon">
          <img src="company.png" />
          <p class="hotel-name">Hotel Hibiscus Melaka</p>
     </div>

     <div id="promotion-details">
          <h3>Get 5% off your hotel bookings.</h3>
          <h3>Early birds will get complementary dinner on the first
          day.</h3>
     </div>

     <div id="extra-info">
          <p>Get another 25% off with our <span class="special">Deal of The
          Day</span> promotion on top of current discounts.</p>
          <p>We provide FREE transportation from the airport to the
          hotel</p>
     </div>

</div>
```

Guides

- The container box:
  - The width is 450px with a padding of 5px. The border is 2px in width and it is solid and gray.
- The company icon box:
  - The width is 100px. The border is blue with a 1px solid line. The height is 120px and the content are all in the center of the box.
  - The paragraph for the hotel name has a 9pt size.
  - The image in this box has a height and width of 50px.

Continued.....

- The promotion details box:
  - The width is 300px. It has a 5px padding. There is also a small space of 5px to separate from the left box.
- All heading level 3 has a #338811 colour.
- All paragraphs are in italics.
- The extra info box:
  - The width is 395px and the padding is 5px.
  - All the paragraph in this box has a Arial Narrow font.
- The special style:
  - It is red, bold and underlined.

(b) Write the Internal CSS codes for the following hyperlinks. The HTML codes are given for your reference. [5 marks]

```
<ul>
     <li><a href="#">Games</a></li>
     <li><a href="#">Books</a></li>
     <li><a href="#">Home Appliances</a></li>
</ul>
```

Guides

- The list:
  - No bullets in the list. The space for the bullets is also removed.
- The list item:
  - The height of each line is 3em.
- All hyperlinks colour is #00FFFF with no underlines.
- When the mouse pointer hovers on the hyperlinks, it changes to italics with a #FFFF55 background colour and the space between the letter increases to 5px.
- All visited hyperlinks will be silver in colour.

Continued.....

QUESTION 3 -- JavaScript (15 Marks)

(a) Write only the JavaScript codes to calculate the cost to paint a wall based on the following descriptions. [6 marks]

- A litre of paint can be used to paint $3.5m^2$ of wall area.
- Whenever the value of length, height and cost of paint changes, the displayed values will also change automatically.
- The HTML form is given below.

```
<form name="paintfrm">

<p>Length of wall (m) : <input type="range" name="length" min="0" max="50"
step = "0.01" onchange="calc();" /></p>

<p>Height of wall (m): <input type="range" name="height" min="0" max="50"
step = "0.01"  onchange="calc();" /></p>

<p>Paint cost per litre : RM <input type="text" name="cost"
onkeyup="calc();" />

<p>Length       : <span id="len"></span> m</p>
<p>Height       : <span id="heits"></span> m</p>
<p>Total Area   : <span id="area"></span> m<sup>2</sup></p>
<p>Litre        : <span id="litre"></span></p>
<p>Bill         : RM <span id="pay"></span></p>
</form>
```

Sample Output

Length of wall (m) :

Height of wall (m):

Paint cost per litre : RM 5.50

Length : 16 m

Height : 32 m

Total Area : 512.00 m^2

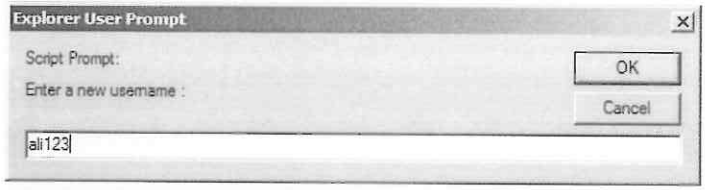
Litre : 146.29

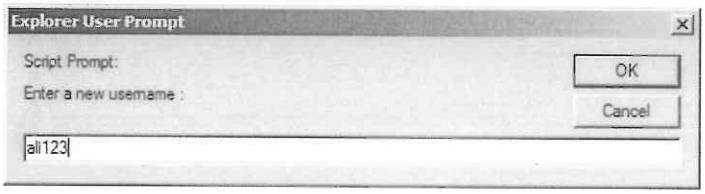
Bill : RM 804.57

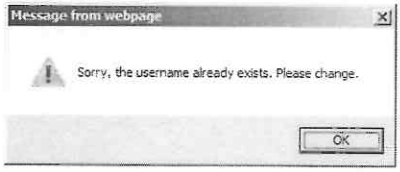
(b) Create an empty array called *usernames* in JavaScript. Next ask the user whether they would like to continue, using a confirm box. If the user agrees, ask the user to enter a new username. Check to see whether the username that the user entered is already existing in the array. If it already exists, display an alert "*Sorry, the username already exists. Please change.*". Otherwise, insert the username into the array and display an alert "*Thank you. Username has been added.*". Continue this process as long as the user wants to. [9 marks]

Continued.....

Sample output







Continued.....

QUESTION 4 – PHP & MySQL (15 Marks)

The figure below shows the **Menu** table from MySQL.

Attribute Name	Data Type	Details
menu_id	int(5)	Primary key (Auto increment)
menu_name	varchar(100)	
menu_price	decimal(5,2)	
menu_like	int(5)	

(a) Write the HTML and PHP codes to display all the records in the Menu table on the browser as shown below. The thumbs up icon is a hyperlink that is used to update the amount of likes for each menu item. You are also required to display the message "*No records found*" if the table has no records to be displayed.

[9 marks]

Sample output

Menu ID	Menu Name	Menu Price	Likes
1	Fried Chicken	4.50	4
2	Chicken Soup	3.50	1
3	Lamb Chop	21.50	0
4	Cendol Durian	4.00	3

(b) Based on question (a), write the PHP codes to check whether the user clicked on the thumbs up icon. If they clicked on it, increase the Likes value by one and update the value in the Menu table in the database. Next reload the page so that the updates can be seen.

[6 marks]

End of Page.